

Comparisons of Job Characteristics

Focus Occupation: [Electricians \(47-2111\)](#)

Associated Occupation: [Helpers--Installation, Maintenance, and Repair Workers \(49-9098\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 77

Focus Occupation: Electricians (47-2111)

Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	15.0	16.5	>	Current knowledge level is likely sufficient
Public Safety and Security	6.9	9.5	7.6	<	Expanded education and/or training may be required
Engineering and Technology	5.7	9.1	11.8	>>	Current knowledge level is likely more than sufficient
Design	5.2	8.2	13.4	>>	Current knowledge level is likely more than sufficient
Building and Construction	4.0	6.9	14.6	>>	Current knowledge level is likely more than sufficient
Chemistry	4.8	6.8	5.3	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 69

Focus Occupation: Electricians (47-2111)

Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	10.8	10.5	0	Current skill level may be sufficient
Equipment Maintenance	3.5	10.7	10.3	0	Current skill level may be sufficient
Operation and Control	5.4	10.5	8.8	<	A higher skill level may be required
Quality Control Analysis	5.9	10.0	11.0	>	Skill level is likely sufficient
Repairing	3.4	9.4	11.6	>	Skill level is likely sufficient
Troubleshooting	4.5	9.3	12.3	>>	Skill level is likely more than sufficient
Equipment Selection	3.3	8.7	8.4	0	Current skill level may be sufficient

Installation	1.7	5.8	9.4	>>	Skill level is likely more than sufficient
Technology Design	2.6	5.8	4.4	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: Electricians (47-2111)

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Extent Flexibility	4.8	13.4	10.4	<<	Extensive improvement in abilities may be required
Arm-Hand Steadiness	6.8	12.4	11.0	<	Some improvement in abilities may be required
Static Strength	5.0	11.6	9.3	<	Some improvement in abilities may be required
Trunk Strength	5.7	11.1	9.4	<	Some improvement in abilities may be required
Hearing Sensitivity	5.6	10.1	7.9	<	Some improvement in abilities may be required
Dynamic Strength	3.5	8.5	6.6	<	Some improvement in abilities may be required
Gross Body Equilibrium	3.2	8.4	8.2	0	Current ability level may be sufficient
Glare Sensitivity	2.6	7.5	5.9	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 70

Focus Occupation: Electricians (47-2111)

Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Fabricate, assemble, or disassemble manufactured products by hand	11
Move or fit heavy objects	8
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Understand service or repair manuals	40
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 83

Focus Occupation: Electricians (47-2111)

Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

Tools and Technologies	Exclusivity
Aerial lifts	13
Compressors	9
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Earth moving machinery	11
Face and head protection	7
Forming tools	2
Holding and clamping tools	3
Industry specific software	1
Ladders and scaffolding	6
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Power tools	2
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.